Amendment to the Claims

This Listing of Claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A light beam detection device that receives invisible light and emits visible light in response to the received invisible light, the device comprising:

a light-receiving means for receiving [[a]] an invisible light beam and outputting a detection signal;

a light detection circuit for generating and outputting a light-emission signal based on the detection signal;

a light-emitting means for emitting visible light based on the light-emission signal;

a detection portion on which the light-receiving means and the light-emitting means are arranged close together;

a support for supporting the detection portion; and

a driving means for moving the support in a reciprocative manner in an X axis direction and a Y axis direction to form a detection region with the detection portion, wherein

the light-emitting means forms an afterimage on the detection region when the invisible light beam irradiates the detection region.

2. (canceled)

3. (original) The light beam detection device as claimed in claim 1, wherein the driving means includes an X axis direction driving means for reciprocating the support in the X axis direction and a Y axis direction driving means for vibrating the support in the Y axis direction; and

the detection region is adjustable in size with the X axis direction driving means and the Y axis direction driving means.

4. (original) The light beam detection device as claimed in claim 1, wherein the light-emitting means has an emission brightness that is adjustable with the light detection circuit.

5. (original) The light beam detection device as claimed in claim 1, wherein the light detection circuit generates a comparison voltage based on the detection signal and holds a peak voltage of the comparison voltage, generates a reference voltage based on the held peak voltage, and compares the comparison voltage with the reference voltage to generate and output the light-emission signal when the comparison voltage is higher than the reference voltage.

6. (original) The light beam detection device as claimed in claim 1, wherein the support includes a supporting rod having a square cross section.

7. (currently amended) A light beam detection device that receives invisible light and emits visible light in response to the received invisible light, the device comprising:

a light-receiving element for receiving [[a]] an invisible light beam and outputting a detection signal;

a light detection circuit for generating and outputting a light-emission signal based on the detection signal;

a light-emitting element for emitting visible light based on the light-emission signal;

a detection member on which the light-receiving element and the light-emitting element are arranged close together;

a supporting member for supporting the detection member; and

a driving device for moving the supporting member in a reciprocative manner in an X axis direction and a Y axis direction to form a detection region with the detection member, wherein

the light-emitting means forms an afterimage on the detection region when the invisible light beam irradiates the detection region.

8. (canceled)

9. (original) The light beam detection device as claimed in claim 7, wherein the driving device includes an X axis direction driving device for reciprocating the supporting member in the X axis direction and a Y axis direction driving device for vibrating the support in the Y axis direction; and

the detection region is adjustable in size with the X axis direction driving device and the Y axis direction driving device.

10. (original) The light beam detection device as claimed in claim 7, wherein the light-emitting element has an emission brightness that is adjustable with the light detection circuit.

11. (original) The light beam detection device as claimed in claim 7, wherein the light detection circuit generates a comparison voltage based on the detection signal and holds a peak voltage of the comparison voltage, generates a reference voltage based on the held peak voltage, and compares the comparison voltage with the reference voltage to generate and output the light-emission signal when the comparison voltage is higher than the reference voltage.

12. (original) The light beam detection device as claimed in claim 7, wherein the supporting member includes a supporting rod having a square cross section.